



Recombinant Human Tyrosyl-DNA phosphodiesterase 1 (TDP1)

Product Code	CSB-EP023352HU-B
Abbreviation	TDP1
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9NUW8
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MSQEGDYGRW TISSSESEE EKPKDPKPST SLLCARQGA ANEPRYTCSE AQKAAHKRKI SPVKFSNTDS VLPPKRQKSG SQEDLGWCLS SSDELQPEM PQKQAEKVI KKEKDISAPN DGTAQRTEH GAPACHRLKE EEDEYETSGE GQDIWMLDK GNPFFQYLTR VSGVKPKYNS GALHIKDILS PLFGTLVSSA QFNFCFDVDW LVKQYPPEFR KKPILLVHGD KREAKAHLHA QAKPYENISL CQAKLDIAFG THHTKMMLLL YEEGLRVVIH TSNLIHADWH QKTQGIWLSP LYPRIADGTH KSGESPTHFK ADLISYLMAY NAPSLKEWID VIHKHDLSET NVYLIGSTPG RFQGSQKDNW GHFRLKLLK DHASSMPNAE SWPVVGQFSS VGSLGADESK WLCSEFKESM LTLGKESKTP GKSSVPLYLI YPSVENVRTS LEGYPAGGSL PYSIQTAEKQ NWLHSYFHKW SAETSGRSNA MPHIKTYMRP SPDFSKIAWF LVTSANLSKA AWGALEKNGT QLMIRSYELG VLFLPSAFGL DSFKVKQKFF AGSQEPMATF PVPYDLPEL YGSKDRPWIW NIPYVKAPDT HGNMWVPS
Source	E.coli
Target Names	TDP1
Protein Names	Recommended name: Tyrosyl-DNA phosphodiesterase 1 Short name= Tyr-DNA phosphodiesterase 1 EC= 3.1.4.-
Expression Region	1-608
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	This protein is involved in repairing stalled topoisomerase I-DNA complexes by catalyzing the hydrolysis of the phosphodiester bond between the tyrosine residue of topoisomerase I and the 3-prime phosphate of DNA. This protein may also remove glycolate from single-stranded DNA containing 3-prime phosphoglycolate, suggesting a role in repair of free-radical mediated DNA



double-strand breaks. This gene is a member of the phospholipase D family and contains two PLD phosphodiesterase domains. Mutations in this gene are associated with the disease spinocerebellar ataxia with axonal neuropathy (SCAN1). While several transcript variants may exist for this gene, the full-length natures of only two have been described to date. These two represent the major variants of this gene and encode the same isoform.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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